IN THE CLAIMS

This listing of claims replaces all prior versions, and listings, in this application.

1. (currently amended) A process for preparing a cancer cell-transplanted non-human animal comprising: preparing a cell culture support coated on a surface with a polymer having a lower critical temperature for dissolution which changes its hydration force in a temperature range of 0-80°C, wherein the polymer is obtained by homo- or copolymerization of one or more monomers selected from the group consisting of (meth)acrylamide compounds, N- (or N,N-di)alkyl-substituted (meth)acrylamide derivatives, and vinyl ether derivatives, then cultivating cancer cells on the cell culture support in a temperature region wherein the polymer has weak hydration force, thereafter adjusting the culture solution to a temperature at which the polymer has a stronger hydration force, whereby the cultured cancer cells are detached in a sheet from the cell culture support without being treated with a proteolytic enzyme, and transplanting the detached cancer cells in sheet form to a specified site of a non-human animal.

Claim 2 (canceled).

3. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the size of a <u>sheet of cancer cells tissue of transplanted to</u> the non-human animal is controlled by changing the size of the sheet of cancer cells to be transplanted.

Claim 4 (canceled)

5. (previously presented) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein a carrier is placed in contact over the cultured cells at the end of cultivation and the cells are detached intact together with the carrier.

- 6. (previously presented) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the cancer cells are of a transplantable cell line.
- 7. (previously presented) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the cancer cells are of an untransplantable cell line.
- 8. (previously presented) The process for preparing a cancer cell-transplanted non-human animal according to claim 7, wherein the untransplantable cell line is MGT-40, MGT-90, CS-C9 or CS-C20.
- 9. (previously presented) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the cancer cells are collected from a living tissue.
- 10. (previously presented) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein no more than 8×10^5 cells are transplanted.
- 11. (previously presented) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the polymer is poly(N-isopropylacrylamide).
- 12. (previously presented) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the non-human animal is a nude mouse, a rat, a mouse, a guinea pig, or a rabbit.
- 13. (previously presented) A cancer cell-transplanted non-human animal prepared by the process according to claim 1.

- 14. (currently amended) A method of selecting an anti-tumor agent comprising: administering a test substance to a cancer cell-transplanted non-human animal prepared according to claim 1, which has a tumor formed from the sheet of cancer cells, and evaluating the effect of the administered selecting a test substance based on increase or decrease in the that reduces volume and/or weight of the [[a]] tumor formed from the sheet of cancer cells.
- 15. (previously presented) A cancer cell-transplanted non-human animal prepared by the process according to claim 3.
- 16. (currently amended) A method of selecting an anti-tumor agent comprising: administering a test substance to a cancer cell-transplanted non-human animal prepared according to claim 3, which has a tumor formed from the sheet of cancer cells, and evaluating the effect of the administered selecting a test substance based on increase or decrease in the that reduces volume and/or weight of the [[a]] tumor formed from the sheet of cancer cells.

Claims 17-20 (canceled)

- 21. (previously presented) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the cell culture support consists of a homo-and/or co-polymer which changes its hydration force in a temperature range of 0-80°C.
- 22. (currently amended) A process for preparing a cancer cell-transplanted non-human animal comprising:
- (a) preparing a cell culture support coated on a surface, wherein the cell culture support is comprised of a polymer which shifts from a dehydrated state to a hydrated state in the temperature range of 0-80°C, wherein the polymer is obtained by polymerization of one or more monomers selected from the group consisting of (meth)acrylamide compounds, N- (or N,N-di)alkyl-substituted (meth)acrylamide derivatives, and vinyl ether derivatives;

- (b) cultivating cancer cells on the cell culture support at a temperature at which the polymer is dehydrated;
- (c) cooling the cell culture support to a temperature at which the polymer is hydrated, whereby a sheet of cancer cells is detached from the cell culture support without being treated with a proteolytic enzyme; and
- (d) transplanting the sheet of cancer cells to a specified site of a non-human animal.
- 23. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim 22, wherein the cell culture support consists of a homo- and/or co-polymer of the one or more monomers which shifts from a dehydrated state to a hydrated state in the range of 0-80°C.
- 24. (previously presented) The process for preparing a cancer cell-transplanted non-human animal according to claim 22, wherein the polymer is poly(N-isopropylacrylamide).
- 25. (withdrawn) A cancer cell-transplanted non-human animal prepared by the process according to claim 22.
- 26. (previously presented) A method of selecting an anti-tumor agent comprising: administering a test substance to a cancer cell-transplanted non-human animal prepared according to claim 22 and selecting a test substance that reduces volume and/or weight of a tumor formed from the sheet of cancer cells.